

STANDARD INSPECTION REPORT OF A GAS TRANSMISSION PIPELINE RECORD AUDIT

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If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

Operator: AMEREN ILLINOIS COMPANY	Operator ID#: 32513
Inspection Date(s): 3/1/2016, 3/2/2016, 3/3/2016	Man Days: 3
Inspection Unit: Decatur Plaza	
Location of Audit: Decatur	
Exit Meeting Contact: Kevin Glaspy	
Inspection Type: Standard Inspection - Record Audit	
Pipeline Safety Representative(s): Charles Gribbins	
Company Representative to Receive Report: Michael Fuller	
Company Representative's Email Address: mfuller2@ameren.com	

Headquarters Address Information:	300 Liberty Peoria, IL 61602 Emergency Phone#: (800) 755-5000 Fax#:	
Official or Mayor's Name:	Ron Pate Phone#: (217) 424-6518 Email:	
Inspection Contact(s)	Title	Phone No.
Kevin Glaspy	Quality Assurance Consultant	(217) 820-4221

Gas System Operations	Status
Gas Transporter	Various for all locations
Miles of Main	Not Checked
<u>General Comment:</u> <i>Staff to review this information at the Pawnee Training Center.</i>	
Confirm Operator's Potential Impact Radius Calculations	Not Checked
<u>General Comment:</u> <i>The Potential Impact Radius (PIR) calculations are confirmed during the Transmission Integrity Management Program audit.</i>	
Annual Report (Form 7100.2.1) reviewed for the year:	Not Checked
<u>General Comment:</u>	

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The Annual Report will be reviewed at the Pawnee Training Center.

Regulatory Reporting Records		Status
[191.5]	Were Telephonic Notices of Incidents reported to the NRC (800-424-8802)?	Not Applicable
<p>General Comment:</p> <p>No reportable incidents occurred on the transmission system in 2014.</p>		
[191.15(a)]	Was a DOT Incident Report Form F7100.2 submitted within 30 days after detection of an incident?	Not Applicable
<p>General Comment:</p> <p>No reportable incidents occurred on the transmission system in 2014.</p>		
[191.15(b)]	Were there any supplemental incident reports when deemed necessary?	Not Applicable
<p>General Comment:</p> <p>No supplemental incident reports were required due to reportable incidents occurring on Ameren's Transmission Facilities.</p>		
[191.23(a)]	Did the operator report Safety Related Conditions?	Not Applicable
<p>General Comment:</p> <p>No Safety Related Conditions occurred on the transmission system that required to be reported in 2014.</p>		
[191.25]	Did the Operator file a Safety Related Condition Report within 5 working days of determination, but not later than 10 working days after discovery?	Not Applicable
<p>General Comment:</p> <p>No Safety Related Condition reports were required in 2014.</p>		
[192.16(c)]	Customer Notification: Has the operator notified each customer after the customer first receives gas at a particular location?	Satisfactory
<p>General Comment:</p> <p>Upon signing up for gas service the operator's corporate communications department sends a Natural Gas Safety pamphlet with the first customer bill. This is defined in number 2 of PUBL 2.01 in the O&M.</p>		
TEST REQUIREMENTS		Status
[192.517(a)][192.505,192.507,192.509,192.511(c)]	Are pressure test records being maintained for piping operating above 100 psig?	Satisfactory
<p>General Comment:</p> <p>Staff reviewed multiple installations performed in 2014 and observed the piping was pressure tested as required. Leak and strength tests were performed where required. Ameren's procedure defined in PTST 1 PTST 2.01 and 2.02 requires pressure tests records are to be retained for the life of the system to establish MAOP.</p>		
[192.517(b)][192.511,192.509,192.513]	Are pressure test records being maintained for at least 5 years on piping operating below 100 psig?	Satisfactory

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<u>General Comment:</u>		
Staff reviewed pressure tests performed on new and replaced installations for high pressure distribution piping operating between 60 to 100 psig. The pressure tests reviewed were performed as required and were held for the specified durations.		
UPRATING		Status
<u>Category Comment:</u>		
No uprating was performed on transmission facilities in 2014.		
[192.555][192.555]	Has the operator maintained documentation of uprating activities when uprating a pipe to a pressure that will produce a hoop stress of 30% or more SMYS?	Not Applicable
[192.557][192.557]	Has the operator maintained documentation of uprating activities when uprating a pipe to a pressure that will produce a hoop stress of less than 30% SMYS?	Not Applicable
OPERATIONS		Status
[192.603(b)][192.605(a)]	Has the operator conducted a review of the Operations and Maintenance Manual once per yr/15 months?	Not Checked
<u>General Comment:</u>		
The Ameren O&M will be reviewed at the Pawnee Training Center located in Pawnee, Illinois.		
Has the operator conducted a review of the Operator Qualification Plan once per yr/15 months?		Not Checked
<u>General Comment:</u>		
The Ameren OQ Plan will be reviewed at the Pawnee Training Center located in Pawnee, Illinois.		
[192.603(b)][192.605(b)(3)]	Are construction records, maps, and operating history available to operating personnel?	Satisfactory
<u>General Comment:</u>		
Construction records are available through Ameren Gas Engineering or from the local service area headquarters. Maps are maintained in the mapping software being utilized such as Beyers, Ameren's Gas engineering performs the system design for work being completed on piping operating at or above 100 psig.		
[192.603(b)][192.605(b)(8)]	Has the operator periodically reviewed personnel's work to determine the effectiveness of normal O&M procedures when deficiencies are found?	Not Checked
<u>General Comment:</u>		
The Ameren O & M Plan will be reviewed at the Pawnee Training Center located in Pawnee, Illinois.		
[192.603(b)][192.605(c)(1)(i)]	Does the operator maintain documentation for responding to, investigating, and correcting the cause of unintended closure of valves or shutdowns?	Not Checked
<u>General Comment:</u>		
These records will be reviewed at Gas Control in Springfield.		
[192.603(b)][192.605(c)(1)(ii)]	Does the operator maintain documentation for responding to, investigating, and correcting the cause of increase or	Not Checked

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	decrease in pressure or flow rate outside normal operating limits?	
<u>General Comment:</u> <i>These records will be reviewed at Gas Control in Springfield.</i>		
[192.603(b)][192.605(c)(1)(iii)]	Does the operator maintain documentation for responding to, investigating, and correcting the cause of loss of communications?	Not Checked
<u>General Comment:</u> <i>These records will be reviewed at Gas Control in Springfield.</i>		
[192.603(b)][192.605(c)(1)(iv)]	Does the operator maintain documentation for responding to, investigating, and correcting the cause of operation of any safety device?	Not Checked
<u>General Comment:</u> <i>These records will be reviewed at Gas Control in Springfield.</i>		
[192.603(b)][192.605(c)(1)(v)]	Does the operator maintain documentation for responding to, investigating, and correcting the cause of any other foreseeable malfunction of a component, deviation from normal operation, or personnel error which may result in a hazard to persons or property?	Not Checked
<u>General Comment:</u> <i>These records will be reviewed at Gas Control in Springfield.</i>		
[192.603(b)][192.605(c)(2)]	Does the operator maintain documentation of checking variations from normal operation after abnormal operation has ended at sufficient critical locations in the system to determine continued integrity and safe operation?	Not Checked
<u>General Comment:</u> <i>These records will be reviewed at Gas Control in Springfield.</i>		
[192.603(b)][192.605(c)(3)]	Does the operator maintain documentation of notifying responsible operator personnel when notice of an abnormal operation is received?	Not Checked
<u>General Comment:</u> <i>These records will be reviewed at Gas Control in Springfield.</i>		
[192.603(b)][192.605(c)(4)]	Does the operator maintain documentation for periodically reviewing the response of operator personnel to determine the effectiveness of the procedures controlling abnormal operation and taking corrective action where deficiencies are found?	Not Checked
<u>General Comment:</u>		

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These records will be reviewed at Gas Control in Springfield.

[192.603(b)][192.619,192.621,192.623]	Is the operator maintaining documentation verifying their Maximum Allowable Operating Pressure(s)? (MAOP)	Satisfactory
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General Comment:

The current process for verifying the MAOP is maintained in the Pressure Station information documents which indicated the current MAOP and Operating pressure for each pressure system.

CONTINUING SURVEILLANCE RECORDS		Status
[192.709(c)][192.613(a)]	Has the operator reviewed continuing surveillance records for class location changes, failures, leak history, corrosion, changes in cathodic protection, and other unusual operating and maintenance conditions?	Satisfactory

General Comment:

Staffs review of the 2014 transmission records maintained in the Gas Compliance System (GCS) determined that Ameren is reviewing continuing surveillance. Ameren's Pipeline Integrity performs annual reviews of the class locations using High Consequence Area (HCA) maps and alignment sheets to establish class locations and HCA location's. Review of leak repair records indicates they are establishing leak causes to allow for correct identification of leak causes for the annual DOT report. Review of the corrosion records maintained in GCS indicates that areas of low potentials were corrected as required.

CLASS LOCATION CHANGE		Status
[192.709(c)][192.609]	Does the operator maintain documentation when the class location changes for a segment of pipe operating at a hoop stress that is more than 40% SMYS?	Not Applicable

General Comment:

No class location changes were completed on piping operating at or above 40% SMYS in 2014.

DAMAGE PREVENTION RECORDS		Status
<u>Category Comment:</u>		
The Damage Prevention requirements will be reviewed during the record audit performed at the Ameren Training Center located near Pawnee, Illinois.		
[192.709(c)][191.17(a)]	Did the operator track the number of damages per 1000 locate requests for the previous years?	Not Checked
Has the number of damages increased or decreased from prior year?		Not Checked
[192.709(c)][192.617]	Does the operator track records of accidents due to excavation damage to ensure causes of failures are addressed to minimize the recurrence?	Not Checked
[192.709(c)][192.614(c)(3)]	Does the operator provide documentation pertaining to notification of excavation, marking, positive response, and the availability and use of the one call system?	Not Checked
Does the operator have a Quality Assurance Program in place for monitoring the locating and marking of facilities?		Not Checked
Do pipeline operators include performance measures in facility locating contracts?		Not Checked
[IL ADM. CO.265.100(b)(1)]	Was third party damage to mains involving a release of gas reported to ICC JULIE Enforcement?	Not Checked

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	http://www.icc.illinois.gov/julie/	
Has the Operator adopted applicable section of the Common Ground Alliance Best Practices?		Not Checked
If no, were Common Ground Alliance Best Practices discussed with Operator?		Not Checked
EMERGENCY PLANS		Status
[192.603(b)][192.615(b)(1)]	Are supervisors, responsible for emergency action, furnished copies of the latest edition of the Emergency Plan?	Not Checked
<p><u>General Comment:</u></p> <p>Staff determined the emergency plan being maintained at the storage field locations during the onsite inspections are a current version of the emergency plan. Storage Supervisors are provided a current copy of the emergency plan. For the engineering group located at the Decatur Plaza headquarters and the local service areas, an electronic copy of the emergency plan is available on the Ameren Intranet</p>		
[192.603(b)][192.615(b)(2)]	Has the operator maintained documentation that the appropriate operating personnel have received training to assure they are knowledgeable of emergency procedures and that the training was effective?	Not Checked
<p><u>General Comment:</u></p> <p>Emergency Plan training was not reviewed during this audit this documentation is reviewed during the local inspections site audits such as storage fields and local service areas that maintain transmission facilities.</p>		
[192.603(b)][192.615(b)(3)]	Has the operator maintained documentation of employee activity reviews to determine whether the procedures were effectively followed in each emergency?	Satisfactory
<p><u>General Comment:</u></p> <p>Ameren reviews the actions taken by their personnel to establish they took the necessary actions to and followed the established procedures.</p>		
[192.603(b)][192.615(c)]	Has the operator maintained documentation that the operator established and maintained liaison with appropriate fire, police and other public officials?	Not Checked
<p><u>General Comment:</u></p> <p>This documentation is reviewed during the public awareness program audit and was not checked during this audit.</p>		
[192.603(b)][192.615(a)(3)]	Did the review of emergency response time intervals regarding odor/leak complaint documentation indicate adequate emergency response intervals were achieved?	Not Checked
<p><u>General Comment:</u></p> <p>This documentation is reviewed during the local service areas who respond to leak complaints received on distribution and transmission facilities in their service areas. Staff reviewed the response times, investigations and the actions taken by storage personnel when responding to notifications of leaks and issues reported at storage fields. These records maintained at the storage field and are reviewed when conducting the record audits at the Ameren storage fields.</p>		
[192.603(b)][192.615(a)(11)]	Has the operator maintained documentation of actions that were required to be taken by a controller during an emergency?	Not Checked

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<u>General Comment:</u> <i>This documentation is reviewed during the storage field inspections and the Gas Control record audit and was not reviewed during this audit.</i>		
ODORIZATION OF GAS		Status
[192.709(c)][192.625(f)]	Where required, has the operator maintained documentation of odorant concentration level testing?	Not Checked
<u>General Comment:</u> <i>This documentation is reviewed during the Ameren local service center inspections due to the odorometer testing being performed by their personnel.</i>		
[192.709(c)][192.625(e)]	Where required, has the operator maintained documentation of odorizer tank levels?	Not Checked
<u>General Comment:</u> <i>Tank level monitoring is performed by the storage field personnel and the local service center regulator personnel. Staff reviewed the documentation of tank levels inspections performed by storage field personnel during the storage field audits. Tank level monitoring is performed by the local service area regulator personnel and is reviewed during their record audits.</i>		
PATROLLING & LEAKAGE SURVEY		Status
[192.709(c)][192.705]	Does the operator maintain documentation of a patrol program as required?	Satisfactory
<u>General Comment:</u> <i>Staff reviewed the patrolling records for each of the Divisions that have transmission piping.</i>		
[192.709(c)][192.706]	Does the operator maintain documentation of leakage survey(s) performed on a transmission pipeline?	Satisfactory
<u>General Comment:</u> <i>Staff reviewed the Gas Compliance records for piping designated as transmission in the GCS system. No issues were identified during the review.</i>		
ABANDONMENT or DEACTIVATION of FACILITIES PROCEDURES		Status
[192.603(b)][192.727(b)]	Did the operator maintain documentation demonstrating that each pipeline abandoned in place was disconnected from all sources and supplies of gas, and purged of gas?	Satisfactory
<u>General Comment:</u> <i>During a review of completed work packets for replaced pipe maintained at the Decatur Plaza, the operator provided documentation as to where abandonments were completed and included the purge plan documents indicating when a purge was performed.</i>		
[192.603(b)][192.727(c)]	Did the operator maintain documentation demonstrating that each inactive pipeline that is not being maintained under this part was disconnected from all sources and supplies of gas; purged of gas?	Satisfactory
<u>General Comment:</u> <i>A review of completed replacement packets indicated pipelines that were abandoned and are not being maintained were recorded as being disconnected, being purged when required and were capped or sealed when left in place.</i>		

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[192.603(b)][192.727(e)]	Did the operator maintain documentation when air was used for purging that a combustible mixture was not present after purging?	Satisfactory
<u>General Comment:</u> <i>Staff observed where Ameren Engineering department provided purge plans to the field personnel to utilize and if performed as defined will prevent establishing a combustible atmosphere. In most cases 100% nitrogen or a nitrogen slug was utilized during the purge.</i>		
[192.727(g)][192.727(g)]	Did the operator maintain documentation for each abandoned onshore pipeline facility that crosses over, under or through a commercially navigable waterway?	Not Applicable
<u>General Comment:</u> <i>No piping crossing a navigable waterway was abandoned in 2014.</i>		
COMPRESSOR STATION		Status
<u>Category Comment:</u> <i>Compressor Station requirements were not reviewed during this audit because there are no compressors utilized directly on the transmission system. The compressors owned and operated by Ameren are located and operated in conjunction with their storage operations. The records associated with the compressors are reviewed during the individual storage field audits.</i>		
[192.709(c)][192.731(a)]	Has the operator maintained documentation of the compressor station relief devices at a minimum of 1 per year/15 months?	Not Checked
[192.709(c)][192.731(c)]	Has the operator maintained documentation compressor station emergency shutdown at a minimum of 1 per year/15 months?	Not Checked
[192.709(c)][192.736(c)]	Has the operator maintained documentation of the compressor stations – detection and alarms?	Not Checked
PRESSURE LIMITING AND REGULATION		Status
<u>Category Comment:</u> <i>The following stations were checked using MAXAMO for verification of last inspection:</i> <i>Station # Inspection Date</i> <i>11-334 7-29-14</i> <i>11-333 5-19-14</i> <i>302 A 11-4-14</i> <i>11-418 10-20-14</i> <i>X-26 10-11-14</i> <i>X-31 11-6-14</i> <i>X-259 7-12-14</i> <i>X-334 7-15-15</i> <i>14007 6-25-14</i>		
[192.709(c)][192.739(a)]	Is the operator inspecting and testing the pressure limiting and regulating stations at a minimum of 1 per year/15 months?	Satisfactory
<u>General Comment:</u> <i>Staff reviewed the inspections for pressure regulating stations with transmission designations while conducting the Gas Compliance System record review at the Ameren Training Center. The inspections of these facilities are performed by Ameren Regulator Technicians or Communication's personnel who are assigned to the local service area offices.</i>		

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[192.709(c)][192.743(a)]	Is the operator inspecting pressure limiting and regulating stations for adequate capacity at a minimum of 1 per year/15 months?	Satisfactory
<u>General Comment:</u> <i>Reliefs are not utilized for overpressure protection on the Transmission system. Operator / monitor regulators are utilized on transmission pipelines and the compressor high discharge shutdowns are utilized for overpressure protection at the storage field compressor stations.</i>		
[192.709(c)][192.743(b)]	If the operator used calculations to determine sufficient capacity, were the calculation reviews documented at a minimum of 1 per year/15 months?	Satisfactory
<u>General Comment:</u> <i>Where reliefs are not utilized for overpressure protection Ameren performs annual relief capacity calculations to ensure they have sufficient capacity.</i>		
[192.709(c)][192.743(a),192.743(b),192.195(b)(2)]	Is overpressure protection provided by the supplier pipeline downstream of the take point?	Satisfactory
<u>General Comment:</u> <i>Ameren is currently installing overpressure protection on systems that are feed off the transmission systems.</i>		
[192.709(c)][192.743(a)]	If Yes, does the operator have documentation to verify that these devices have adequate capacity?	Satisfactory
<u>General Comment:</u> <i>Ameren is currently installing overpressure at locations where the supplier is providing pressure regulation/Overpressure protection. This project should be finished by 2019.</i>		
VALVE MAINTENANCE		Status
[192.709(c)][192.745(a),192.745(b)]	Did the operator inspect and partially operate transmission valves that might be required during any emergency at a minimum of 1 per year/15 months?	Satisfactory
<u>General Comment:</u> <i>Gas transmission valves were reviewed during this audit and were found to be in compliance.</i>		
[192.709(c)][192.749]	Did the operator inspect and maintain vaults > 200 cubic feet at a minimum of 1 per year/15 months?	Not Applicable
<u>General Comment:</u> <i>There are no vaults located in the Ameren Transmission system meeting these requirements.</i>		
[192.709(c)][192.179]	Are transmission line valves being installed as required of 192.179?	Satisfactory
<u>General Comment:</u> <i>Staff reviewed documents that confirmed the placement of transmission valves as required by this code section.</i>		
[192.709(b)][192.745(b)]	Did the operator take prompt remedial action to correct any valve found inoperable, unless an alternative valve was designated?	Not Applicable

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<u>General Comment:</u>		
<i>The operator's records did not indicate any inoperable valves in the system.</i>		
Investigation Of Failures		Status
[192.709(c)][192.617]	Did the operator experience accidents or failures requiring analysis?	Not Applicable
<u>General Comment:</u>		
<i>There were no reported failures that required analyst on the Transmission system piping.</i>		
WELDING OF STEEL PIPE		Status
[192.603(b)][192.225(b)]	Does the operator have documentation for their qualified welding procedure?	Satisfactory
<u>General Comment:</u>		
<i>Staff reviewed the qualified welding procedures in Ameren's construction standards which are part of the O&M Manual.</i>		
[192.603(b)][192.227,192.229]	Does the operator have documentation of welder qualification documentation as required?	Satisfactory
<u>General Comment:</u>		
<i>Work packets were reviewed during the audit which included the required welder qualification documentation for the welders present on the job sites.</i>		
[192.807]	Does the operator have documentation of welder OQ records?	Satisfactory
<u>General Comment:</u>		
<i>Staff reviewed the welders OQ records</i>		
[192.709][192.243(b)(2)]	Does the operator have documentation of NDT personnel qualification as required?	Satisfactory
<u>General Comment:</u>		
<i>Staff reviewed installations that required non-destructive testing included those qualifications for the individuals who perform the weld inspection testing.</i>		
[192.709][192.243(f)]	Does the operator have documentation of NDT testing performed?	Satisfactory
<u>General Comment:</u>		
<i>Staff reviewed the documents that were located in the work packets at the Decatur Plaza Office.</i>		
CORROSION CONTROL RECORDS		Status
[192.491(a)][192.491(a)]	Has the operator maintained maps or records of cathodically protected piping, cathodic protection facilities, galvanic anodes, and neighboring structures bonded to the cathodic protection system	Satisfactory
<u>General Comment:</u>		

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Revisions to the cathodic protection systems were observed being documented as required and were confirmed being mapped in Beyers.

[192.491][192.459]	Has the operator maintained documentation of examination when buried pipe was exposed?	Satisfactory
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General Comment:

Review of pipe inspection forms completed during replacements or new installations reviewed indicate they were completed as required and had the required information recorded. No issues were identified due to the findings of the pipe inspections performed.

[192.491][192.465(a)]	Has the operator maintained documentation of annual pipe-to-soil monitoring performed at a minimum of 1 per yr/15 months and/or isolated services or short sections of main less than 100 feet at a minimum of 10% annually?	Satisfactory
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General Comment:

Staff reviewed the annual test points for 2014 on the transmission facilities indicated the inspections were completed within the allowable intervals as required. The transmission system does not have any short sections of main or isolated sections. Listed below is a sampling of pipe to soil readings pulled from the records to verify potential readings.

CILCO
 Groveland Reg Station -1.550 volts
 Groveland Blacktop -1.540 volts
 17533 Groveland Blacktop -1.540 volts
 Groveland 4301 Broadway RD -1.520 volts
 Groveland N. Hochstetler -1.600 volts
 Groveland Reg Sta, Dufelmeier RD -1.580 volts
 CIPS
 Dunfermine TP 24005303 -1.365 volts
 Dunfermine TP 24005301 -1.382 volts
 Dunfermine TP 24006013 -1.304 volts
 Dunfermine TP 24005802 -1.384 volts
 Smithfield TP 24006101 -1.616 volts
 Smithfield TP 24006102 -1.186 volts
 Smithfield TP 24006104 -1.186 volts
 Smithfield TP 24006105 -1.176 volts
 Fairview TP 24005302 -1.084 volts
 Fairview TP 24005405 -1.066 volts
 Fairview TP 24005410 -1.650 volts
 Fairview TP 24005404 -1.059 volts
 Danville TP 34-2 -1.420 volts
 Danville TP 34-1 -1.520 volts
 Danville TP 34-5 -1.460 volts
 Danville TP 34-6 -1.260 volts
 Danville TP 34-7 -1.270 volts
 Danville TP 34-8 -1.380 volts
 Danville TP 34-9 -1.260 volts
 Danville TP 34-10A -1.270 volts
 Danville TP 34-11A -1.250 volts
 Danville TP 34-1630 -1.300 volts
 Danville TP 34-3 -1.430 volts

[192.491][192.465(b)]	Has the operator maintained documentation of rectifier or other impressed current power sources inspections at a minimum of 6 per year/ 2 1/2 months?	Satisfactory
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General Comment:

Staff's Review of annual potential test point monitoring results maintained in the Gas Compliance System determined test points were inspected as required and indicated adequate levels of protection.

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[192.491][192.465(c)]	Has the operator maintained documentation of each critical interference bond, reverse current switch, diode, etc. inspections at a minimum of 6 per year/ 2 1/2 months and/or non-critical interference bond inspections at a minimum of 1 per year/15 months?	Satisfactory
General Comment: <i>Staff performed review of critical and non-critical bonds maintained in the Gas Compliance System for transmission at the Decatur Plaza and the records indicate they were inspected as required in 2014.</i>		
[192.491][192.465(d)]	Has the operator taken prompt remedial actions to correct any deficiencies indicated by the monitoring?	Satisfactory
General Comment: <i>Staff did not encounter any potential levels below -.850 volt.</i>		
[192.491][192.465(e)]	Has the operator maintained documentation of unprotected pipeline surveys, inspections, or tests at a minimum of 3 years/39 months?	Not Applicable
General Comment: <i>There is no unprotected steel piping located in the transmission system at Ameren Illinois.</i>		
[192.491][192.467(a),192.467(c),192.467(d)]	Has the operator maintained documentation of inspections or tests for electrical isolation including casings?	Satisfactory
General Comment: <i>Staff's reviews of casing installation inspections for 2014 retained in the Gas Compliance System and are located on transmission piping indicate they were inspected as required.</i>		
[192.491][192.469]	Does the operator have a sufficient number of test stations or other contact points for electrical measurement to determine the adequacy of cathodic protection?	Satisfactory
General Comment: <i>Ameren has reviewed their cathodic protection systems to determine if they have sufficient number of tests stations present to establish sufficient levels of cathodic protection. Staff noted that test points have been added to several locations in different systems.</i>		
[192.491][192.471]	Has the operator maintained documentation of corrective actions taken when a test lead is no longer electrically conductive?	Not Applicable
General Comment: <i>No test lead issues were observed being reported during the annual testing records reviewed in the Gas Compliance System.</i>		
[192.491][192.473(b)]	Has the operator maintained documentation of inspections or tests to assure their cathodic protection system is not affecting adjacent underground metallic structures?	Satisfactory
General Comment: <i>Ameren performs current testing requirements to ensure rectifier installations are not affecting neighboring structures.</i>		
[192.491][192.475(a)]	Has the operator maintained documentation of	Not Applicable

STANDARD INSPECTION REPORT OF A GAS TRANSMISSION PIPELINE

RECORD AUDIT

Unless otherwise noted, all code references are to 49CFR Part 192.

If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

	investigations or steps taken to minimize internal corrosion due to transportation of corrosive gas?	
General Comment: <i>Ameren does not transport corrosive gas in the transmission system downstream of their storage fields. Gas chromatographs are utilized to ensure the gas being received from storage facilities meets pipeline quality standards.</i>		
[192.491][192.475(b)]	Has the operator maintained documentation of internal surface inspections performed when pipe is removed for any reason?	Satisfactory
General Comment: <i>Internal inspections were performed when piping was removed or tap coupons were removed during tapping. The findings are sent to the corrosion department for review and document retention.</i>		
[192.491]	Has the operator maintained documentation of written procedures supported by as-built drawings or other construction records?	Satisfactory
General Comment: <i>New installation documentation reviewed at the Decatur Plaza for transmission piping determined that the as built plans indicated that corrosion test points and anodes and or points of insulation were installed during the work completed.</i>		
[192.491][192.477]	Has the operator maintained documentation of internal corrosion coupon monitoring at a minimum of 2 per year/ 7 1/2 months?	Not Checked
General Comment: <i>Corrosion coupon monitoring results are reviewed during storage field audits. This documentation is retained at the storage fields and was not reviewed during this audit.</i>		
[192.491][192.479]	Has the operator maintained documentation of corrective action where atmospheric corrosion was discovered?	Satisfactory
General Comment: <i>No corrective actions other than painting were required on transmission piping due to atmospheric corrosion in 2014.</i>		
[192.491][192.481]	Has the operator maintained documentation of atmospheric corrosion control monitoring at a minimum of 1 per 3 years/ 39 months?	Satisfactory
General Comment: <i>Atmospheric corrosion inspections were performed during the leak surveys performed on transmission piping surveyed in 2014, these records are in the local service area offices and Atmospheric corrosion is reviewed each time the leak survey the line.</i>		
[192.491][192.483(a), 192.483(b), 192.483(c)]	Has the operator maintained documentation demonstrating that pipe removed due to external corrosion has been repaired or replaced with pipe that was coated and cathodically protected?	Not Applicable
General Comment: <i>No transmission pipe was removed due to external corrosion in 2014.</i>		
TRAINING - 83 IL ADM. CODE 520		Status

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<u>Category Comment:</u>		
<i>The training records were not reviewed during this audit. These records will be reviewed at the Ameren Training Center located near Pawnee, Illinois.</i>		
[520.10(a) (1)]	Has the operator maintained documentation demonstrating that personnel have received adequate training?	Not Checked
[520.10(a) (2)]	Do training records include verbal instruction and/or on the job training for each job classification?	Not Checked
[520.10(b)]	Has the municipal operator maintained documentation demonstrating that personnel have received adequate training?	Not Checked
[520.10(a)(5)]	Are procedures periodically updated to include new materials, new methods of operation and installation, and changes in general procedures?	Not Checked

STANDARD INSPECTION REPORT OF A GAS TRANSMISSION PIPELINE

RECORD AUDIT

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If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.